

S/179/60/000/04/020/027

E081/E141

Rupture in Creep Conditions for a Complex Stress State

There are 1 figure and 10 references: 2 English, 1 German and 7 Soviet. ✓

SUBMITTED: March 23, 1960

Card 3/3

KATS, Sh.N., kand.tekhn.nauk

Effect of additional axial stresses on the long-term strength
of boiler pipes. Teploenergetika 7 no.5:12-16 My '60.
(MIRA 13:8)

1. TSentral'nyy kotloturbinnyy institut.
(Pipe, Steel) (Boilers)

KATS, Sh.N., kand. tekhn. nauk

Destruction of plane carbonic bottoms in creep. Teploenergetika
10 no.11:49-50 N '63. (MIRA 17:1)

1. Tsentral'nyy kotloturbinnyy institut

S/096/63/000/002/010/013
E193/E383

AUTHOR: Kats, Sh.N., Candidate of Technical Sciences
TITLE: Strength of tubes with a longitudinal welded seam
PERIODICAL: Teploenergetika, no. 2, 1963, 74 - 77.

TEXT: The object of the present investigation was to establish whether welded steel tubes could be used in boiler construction. Experimental specimens included resistance-welded tubes of unalloyed carbon steel 20 (32 mm in diameter, 2.5 mm wall thickness) and electric-arc welded austenitic steel 1X18N9T (1Kh18N9T) (32 mm diameter, 2 mm wall thickness). The tubes were tested in the as-received condition and after heat-treatment (30 min annealing at about 910 °C for steel 20 tubes, austenitizing treatment at 1070 °C for 1Kh18N9T steel. The room-temperature test included the following: tensile test, bursting tests on straight and bent tube specimens; flattening tests; cone bursting tests (forcing a tapered mandril into a short length of tube. The resistance-to-creep of steel 20 and 1Kh18N9T tubes was measured at 500 and 700 °C, respectively; the stress-to-rupture tests were carried out on straight and bent tube specimens under the action of internal

Card 1/2

S/096/63/000/002/010/013
E195/E583

Strength of

pressure and on straight specimens, stressed in bending and torsion. The results of all the tests are tabulated or reproduced graphically. Conclusions: the performance of the tubes depended on the quality of the weld; when this was satisfactory, the strength of the tube, as revealed by the test applied, was up to the specifications set for seamless tubes; when the quality of the weld was low, the performance of the tube was below that specified even for welded tubes. This applied particularly to the unalloyed carbon-steel tubes. The quality of welds in the argon-arc welded austenitic steel tubes was better and, as a rule, more uniform. In principle, both unalloyed and austenitic-steel welded tubes could therefore be used in boiler construction, subject to rigorous control of the welding operation and comprehensive, non-destructive testing of the welds. In the case of the austenitic tubes operating at high temperatures, austenitizing treatment would be obligatory, both after welding and in forming operation. There are 6 figures and 9 tables. ✓

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut (Central
Boiler-turbine Institute)

Card 2/2

KATS, Sh.N., kand. tekhn. nauk

Strength of pipes and drums with single nonreinforced openings.
Teploenergetika 11 no.10:51-55 O '64. (MIRA 18:3)

1. Tsentral'nyy kotloturbinnyy inatitut.

KATS, Sh.N., inzh.

Life of T-shaped pieces from carbon steel. Teploenergetika 12
no.2:63-66 F '65. (MIRA 18:3)

1. Tsentral'nyy kotelturbinnyy institut.

KATS, S.R., Cand Tech Sci -- (diss) ^{On} "Concerning a method of
synthesis of jet ^a ~~propagation~~ ^{two-terminal} ~~bipolar~~ ^{network} forming
impulses of arbitrary form ^{upon} an arbitrary charge."
Mos, 1956, 20 pp; 2 sheets with ^{diagrams} ~~drawings~~ (Min of Higher Education
USSR. Mos Order of Lenin and Order of Labor Red Banner
Higher Technical School im Bauman) 150 copies (KL, 51-56, 102)

- 4 -

82966

9,3230

S/142/60/003/002/006/022
E192/E382

AUTHOR: Kats, S.R.

TITLE: A Method of Synthesising the Networks for Forming
the Pulses of an Arbitrary Shape Across an Arbitrary
Load

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Radiotekhnika, 1960, Vol. 3, No. 2, pp 202 - 226

TEXT: The problem of forming pulses of an arbitrary shape
across a purely resistive load was considered by Meyerovich
(Ref. 4). The method, however, is not suitable for engineering
calculations. An attempt is made, therefore, to simplify the
method and extend it to the cases of an arbitrary (not
necessarily resistive) load. The pulse-forming circuit is shown
in Fig. 1. The operation of this system is described by:

Card 1/7

82966

S/142/60/003/002/006/022

A Method of Synthesising the Networks ^{E192/E382} for Forming the Pulses
of an Arbitrary Shape Across an Arbitrary Load

$$(Z_o + Z_{\Gamma}) I(p) = E(p);$$

$$H(p) = \frac{1}{Z_{\Gamma}} \cdot E(p); \quad E(p) = \frac{1}{p};$$

$$H(p) = \frac{I(p)}{E - pZ_o(p) \cdot I(p)} =$$

$$= \frac{1}{Z_o(p)} \cdot \frac{F(p)}{E - pF(p)} \quad (1)$$

where E is the voltage to which the bipole Z_{Γ} is
charged, $I(p)$ is the operatorial expression for the current
flowing in the load, $Z_o(p)$ is the complex load, $F(p)$ is

Card 2/7

82966

S/142/60/003/002/006/022
E192/E382

A Method of Synthesising the Networks for Forming the Pulses of an Arbitrary Shape Across an Arbitrary Load

the operatorial expression for the signal at the output and $H(p)$ is the Laplace transform for the transit function $h(t)$ of the bipole. The transit function $h(t)$ can be determined by employing the general method of the residues with respect to the transcendental function $H(p)$. This is an analytical function over the whole complex plane except at the poles, so that the method of residues can be applied to it. The original of the function can therefore be represented as an infinite trigonometric series. This is in the form of Eq. (2), where K_k and K_k^* are conjugate residues at the k -th pole, ω_k is the frequency determined by the k -th pole, P_k/R_o is the real part of the residue at the k -th pole, Q_k/R_o is the imaginary part of the residue at the k -th pole, R_o is the ohmic load or the real part of the complex load, C_k are the coefficients of the

Card 3/7

82966

S/142/60/003/002/006/022

E192/E382

A Method of Synthesising the Networks for Forming the Pulses of an Arbitrary Shape Across an Arbitrary Load

of the series and φ_k are the phases of the components of the series. When the transient function is known the signal function can be easily determined. This is expressed by the Duhamel integral given by Eq. (3); it is assumed in this equation that the input function is in the form $E - f(t)$. The physical realisability of the impedance function of the bipole requires that the following conditions be met: 1) the real part of the system function should not be negative on the imaginary axis p ; 2) the real and the imaginary part of the impedance function should be even and odd functions on the imaginary axis, respectively; 3) the function should have no poles and zeros in the righthand-series plane; 4) the poles of the function lying on the imaginary axis p should be simple or conjugate in pairs; 5) the residues at these poles should be real positive quantities. In the case of a rectangular pulse, all the above conditions are met and the formation of the pulse presents no difficulty. However, in the case of different pulses or when the Card 4/7

82966

S/142/60/003/002/006/022

E192/E382

A Method of Synthesising the Networks for Forming the Pulses of an Arbitrary Shape Across an Arbitrary Load

load is complex, the fifth condition is not met. In this case, the residues at the poles of $H(p)$ should be negative imaginary quantities. Now if the transient function is in the form of a sum of sinusoidal and cosinusoidal components, the forming bipole consists of two LC dipoles such as shown in Fig. 2. However, if the transient function is in the form of a difference of the two components, the parameters L_c , C_c (inductance and capacitance) of the elements of the network, which corresponds to the cosinusoidal components, are negative. A direct realisation of such capacitances and inductances is impossible and it is therefore necessary to change the pulse-forming circuit. This is shown in Fig. 3, where the positive inductances and capacitances are used but these are arranged in such a way that the currents due to the cosinusoidal and sinusoidal components flow in opposite directions. The parameters of the individual circuits corresponding to sinusoidal and cosinusoidal components are determined by Eqs. (4). The above formulae are employed to Card 5/7

82966

S/142/60/003/002/006/022

E192/E382

A Method of Synthesising the Networks for Forming the Pulses of an Arbitrary Shape Across an Arbitrary Load

analyse a number of special cases. First, the forming of a linearly increasing pulse with a fixed "pedestal" is considered (Fig. 4); a pulse is formed across an ohmic load R_0 . The impedance function of the dipole for this case is given by Eq. (6) and the elements of the forming network are given on p. 213. The generation of a rectangular pulse and a triangular pulse is then considered; the expressions for the inductance and capacitance components of the latter pulse are given on p. 215. The forming of an exponential pulse, shown in Fig. 8, is then analysed; the generation of a linearly increasing pulse with a fixed pedestal across a complex load is also investigated; the impedance function for this case is given by Eq. (20). The generation of a linearly increasing pulse on a complex load and a rectangular pulse across a complex load is also investigated. Finally, the generation of a pulse similar to that of Fig. 4, across a non-linear load, is investigated. Since the above method of synthesis is based on the approximation of an infinite Fourier series by a finite series, the pulse

Card 6/7

X

82966

S/142/60/003/002/006/022
E192/E382

A Method of Synthesising the Networks for Forming the Pulses of
an Arbitrary Shape Across an Arbitrary Load

which is obtained in practice will be subject to a square error
which is minimised by the Fourier series. However, the errors
can be made comparatively small by considering a sufficient
number of terms in the series. The author expresses his
indebtedness to Professor A.M. Kugushev, Doctor of Technical
Sciences Professor Ya.S. Itskhoki and Candidate of Technical
Sciences Docent L.A. Lyubimov for their help and advice.
There are 10 figures and 6 references: 1 English and 5 Soviet.

ASSOCIATION: Kafedra radiotekhniki Moskovskogo ordena Lenina i
ordena Trudovogo Krasnogo Znameni vysshego
tekhnicheskogo uchilishcha im. Baumana (Chair
of Radio Engineering of the Moscow Higher Technical
School im. Bauman)

SUBMITTED: July 7, 1959

Card 7/7

KATS, S. V.

A Technical Guide on the Study of Peat Bogs, (published by the Cen. Peat Exp. Sta., Min. of Agri., RSFSR)

1933. Atlas Rastitel'nikh Ostakov v Torfe (An Atlas of the Vegetation Remains in Peat).
by Kats, N. Ya and Kats, S. V. 30 pages with 20 tables.

SO: Botanicheskiy Zhurnal Vol XXXV, No 1, pp 100-110,
Jan-Feb 1950, Russian bimo per, Moscow/Leningrad (U-5511,
12 Feb 1954)

1. KATS, S. V.
2. USSR (600)
4. Bituminous Coal - Bakh Valley
7. Forests of the Upper Miocene in the Bakh river valley. Dokl. AN SSSR 87 no. 5, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

KATS, G. V.

"The History of Forests in Western Siberia, From the Neocene to the Present." Cand Biol Sci, Kazan' State U imeni V. I. Ul'yanov-Lenin, Moscow, 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

KATS, S.V.

KATS, N.Ya.; KATS, S.V.; SUKACHEV, V.N., akademik.

Paleoecology and chronology of the distribution of spruce in Europe, during the post-Valdai period. Dokl.AN SSSR 90 no.4:655-658 Je '53.
(MLRA 6:5)

1. Akademiya Nauk SSSR (for Sukachev).

(Spruce--Fossil)

KATS, N.Ya.; KATS, S.V.

New data on interglacial deposits at Novyye Nemykar in Smolensk
Province. Izv.AN SSSR, Ser.geog. no.2:72-78 Mr-Apr '56. (MLRA 9:8)
(Novyye Nemykar--Pollen, Fossil)

KATS, N.Ya.; KATS, S.V.

Interglacial deposits of the Mikulin period (Riss-Würm) near the
village of Korenevo in Moscow Province. Pochvovedenie no.9:101 E'56.
(MIRA 10:1)

(Moscow Province--Geology, Stratigraphic)

Kats, S.V.

5-2-2/35

SUBJECT: USSR/Geology

AUTHORS: Kats, N.Ya., Kats, S.V., Salov, I.N.

TITLE: Rissian-Wurmian (Mikulinskiy) Interglacial Deposits near Ryasna Village (Riss-Vyurnskiye (Mikulinskiye) mezhlednikovyye otlozheniya u d. Ryasna, Ponizovskogo rayona, Smolenskoj obl.)

PERIODICAL: Byulleten' Moskovskogo Obshchestva Ispytateley Prirody, Otdel Geologicheskij, 1957, #2, pp 15-23 (USSR)

ABSTRACT: The authors describe the cross section of sediments of the Riss-Wurm (Mikulinsk) age and establish the position of the southern border of the Wurm (Kalinin) glaciation in the region of Smolensk.

A pollen diagram is given and the development of forests is divided into 4 phases:

1. The phase of pine-trees;
2. The phase of oak-trees; temperature rises and reaches the maximum;
3. The phase of hornbeams, foliage with broad leaves and alder-trees; some drop of summer temperature and increase of

Card 1/2

5-2-2/35

TITLE: Rissian-Wurmian (Mikulinskiy) Interglacial Deposits near
Ryasna Village (Riss-Vyurmskiye (Mikulinskiye) mezhlodnikovyye
otolozheniya u.d. Ryasna, Ponizovskogo rayona, Smolenskoy obl.)

humidity;

4. The phase of pine-trees and fir-trees; the further drop
of temperature which, at the end of this phase, was lower than
at present.

A number of macrofossils of plants growing in the warm climate
is cited. Among them is *Dulichium spathaceum*, a leading fossil
of the Mikulinsk inter-glacial period.

The article contains 1 diagram and 2 tables.

The bibliography lists 11 Slavic references.

ASSOCIATION: Not indicated.

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 2/2

KATS, N.Ya.; KATS, S.V.

New data on interglacial sediments near Korenevo in Moscow Province.
Biol. Kom. chetr. per. no.22:54-62 '58. (MIRA 11:11)
(Korenevo--Paleobotany)

KATS, N.Ya.; KATS, S.V.

History of the flora and vegetation of northwestern Siberia during
the postglacial and late glacial periods [with summary in English].
Bot. zhur. 43 no.7:998-1014 J1 '58. (MIRA 11:9)
(Siberia, Western--Paleobotany, Stratigraphic)

KATS, N.Ya.; KATS, S.V.

New data on interglacial deposits near Grodno. Dokl. AN BSSR 3
no. 2:56-60 F '59. (MIRA 12:5)

1. Predstavleno akademikom AN BSSR K.I. Lukashevym.
(Grodno Province--Geology, Stratigraphic)

KATS, N.Ya.; KATS, S.V.

Fossil flora and vegetation in Mindelian-Russian interglacial
sediments in the Zhidovshchizna region near Grodno. Biol. Kom.
chetv. per. no.25:35-49 '60. (MIRA 14:1)
(Grodno region—Paleobotany)

KATS, N.Ya.; KATS, S.V.; CHEMEKOV, Yu.F.

Tetyukhe peat bogs and their importance for Quaternary stratigraphy
in the southern Soviet Far East. Geol. i geofiz. no.4:96-105 '61.
(MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut,
Leningrad.

(Soviet Far East—Geology, Stratigraphic)
(Tetyukhe region—Peat bogs)

KATS, N.Ya. (Moskva); KATS, S.V. (Moskva)

Interglacial deposits near the village of Sukhoy Pochinok in Yel'nya
District of Smolensk Province. Bot.zhur. 46 no.6:847-853 Je '61.
(MIRA 14:6)

(Yel'nya District—Glaciological research)

KATS, N.Ya.; KATS, S.V.

Seeds of Euryale from the Pliocene of the lower Kama Valley. Dokl.
AN SSSR 136 no.1:206-208 Ja '61. (MIRA 14:5)

1. Predstavleno akademikom V.N.Sukachevym.
(Menzelinsk District--Euryale, Fossil)

KATS, N.Ya.; KATS, S.V.

Interglacial sediments in the vicinity of Rozdol in the Drogobych
area. Trudy Kom.chetv.per. no.26:61-73 '61. (MIRA 15:3)

(Rozdol region--Glacial epoch)

(Rozdol region--Paleontology, Stratigraphic)

KATS, N.Ya; KATS, S.V.

Flora and vegetation of the Pliocene in the lower Kama Valley.
Biol.MOIP.Otd.biol. 67 no.4:62-78 J1-Ag '62. (MIRA 15:10)
(KAMA VALLEY--PALEOBOTANY, STRATIGRAPHIC)

KATS, N.Ya.; KATS, S.V.

Outcrop near the village of Korenevo, Moscow Province, a geological monument of the Riss-Wurm Age with plants extinct in Europe. Trudy Od. un. 152. Ser. geol. i geog. nauk no.9:53-60 '62. (MIRA 17:6)

KATS, Nikolay Yakovlevich; KATS, Sof'ya Vasil'yevna; KIPIANI,
Mariya Georgiyevna; SUKACHEV, V.N., akademik, otv. red.;
ENDEL'MAN, G.N., red.

[Atlas and guide to Quaternary plants and seeds found in
the U.S.S.R.] Atlas i opredelitel' plodov i semian,
vstrechaiushchikhsia v chetvertichnykh otlozheniakh SSSR.
Moskva, Nauka, 1965. 364 p. (MIRA 18:7)

KATS, S. Ye.

HA. "SKAYA", Ye. L., inzhener; KAT, S. Ye., inzhener.

connecting a station communication system to a 49 switchboard.
for "vler.i sviaz" at 8:29-30 of '59. (11.1 1:3.
telephone switchboards)

KATS, S. Ye., inzh.; NIKOL'SKAYA, Ye. M., inzh.

Joint operation of M-49 and TsBx3x2 commutators. Avtom., telem.i
'sviaz' 5 no.5:20-21 My '61. (MIRA 14:6)

1. Giprottranssignalsvyaz'.
(Railroads—Electronic equipment)
(Railroads—Communication system)

KATS, S.Ye., inzh.

Joint operation of long-distance M-49 commutators and the TsBx21 and
URTS-100/600 stations. Avtom., telem.i sviaz' 6 no.5:36-37 Ny
'62. (MIRA 15:4)

1. Giprotranssignalsvyaz'.
(Telephone)

KATS, S.Z., inzh.

Electrochemical treatment of spinning-frame parts for reducing
warp-thread breakage. Sbor. st. NIILTEKNASH no.3:104-109 '57.
(MIRA 12:10)

(Spinning machinery)

2

CA KATS, Ts. B.

Effect of ultrasound on purine and pyrimidine bases.
 I. K. Kipiner and Ts. B. Kats. Doklady Akad. Nauk
 S.S.S.R. 62, 611-14 (1957). Supersonic irradiation (300,000
 cycles) of the bases is reported. Adenine shows progressive
 decline of intensity of its 254-m μ peak, whereas uracil shows
 a decline of its 260-m μ peak. Guanine shows relatively small
 decline of both peaks (250 and 278). The results indicate
 gradual total decompn. of the moles. A slight shift of the
 abn. min. to longer wave lengths is noted, and the depth of
 the min. increases with length of interaction. If all O is
 removed from the soln. beforehand, the decompn. is very
 severely retarded, and in H atm. only a few per cent of the
 bases suffer decompn.; in air the decompn. can reach 45-60%
 (125 min. run). If other substances that have higher
 vapor pressure than H₂O are present in soln., the decompn.
 (uracil) is also retarded. Methylene blue is irreversibly
 decolorized by supersonic within a few min. in aq. soln.,
 but is almost stable in the presence of EtOH or H₂O;
 possibly the effect is due to screening of the active moles. by
 penetration of the readily vaporizable substances into the
 cavitation bubbles. However, amino acids (leucine,
 methionine) also display such protective action, possibly
 by competition. G. M. Kosolapoff

Lab. Biochem. of Cancer, AMS USSR

Translation M-28, 14 Dec 54

KATS, TS.B.

Control of laboratory exercises. Fiz.v shkole 16 no.5:36-37
S-O '56. (MLRA 9:11)

1. 596-ya srednyaya shkola, Moskva.
(Physica--Problems, exercises, etc.)

KATS, TS.B., prepodavatel' fiziki

Notes about industrial training. Politekh.obuch. no.6:36-44
Je '57. (MIRA 12:4)

1. Srednyaya shkola No.596, Moskva.
(Moscow--Education, Cooperative)

AUTHOR: Kats, Ts.B. SOV-47-58-5-14/28

TITLE: Demonstration Experiments in Physics (Demonstratsionnyye opyty po fizike)

PERIODICAL: Fizika v shkole, 1958, ¹⁸Nr 5, pp 62-65 (USSR)

ABSTRACT: Assuming that a number of demonstration experiments which appeared in English textbooks on physics may be of interest to Soviet schools, the author reproduces them. The materials were taken from the book "The Science Master's Book" presenting a collection of articles written by English teachers of physics and published in the journal "The School Science Review".
There are 4 diagrams.

ASSOCIATION: 596-ya srednyaya shkola, Moskva (596th Secondary School, Moscow)

1. Physics--Study and teaching

Card 1/1

KATS, TS. B.

Organizing a "Physics and medicine" evening. Fiz. v shkole 21
no.6:77-79 N-D '61. (MIRA 14:12)

1. 596-ya shkola, Moskva.
(Medicine---Study and teaching)

POPOV, L.; KATS, TS.

Acquiring second occupations in a metallurgical combine. Sots.
trud 8 no.4:56-58 Ap '63. (MIRA 16:4)
(Nizhniy Tagil—Iron and steel workers—Education and training)

KUZEMA, I.D., kand. tekhn. nauk; PROKHOROV, P.A.; MOLOTKOV, V.A.; KATS, T.M.;
RUSETSKAYA, M.I.; BELOUSOVA, N.G.

Characteristics of the production of sheet for extra-large boilers.
Met. 1 gornorud. prom. no.5:38-40 S-O '64. (MIRA 18:7)

SOKOLOVSKIY, P.I.; MOLOTKOV, V.A.; KATS, T.M.

Heat-treated rolled sections of low-carbon steel. Standartizatsiia
25 no. 5:36-38 My '61. (MIRA 14:5):
(Steel, Structural--Testing)

ALEKSEYEV, A.; ANCHISHKIN, A.; BERRI, L.; BARABANOV, M.; BOGOMOLOV, O.;
BRAGINSKIY, B.; IOFFE, Ya.; KOVAL', T.; KONAKOV, D.; KUVARIN, V.;
KULEROV, V.; LITVIYAKOV, P.; MUROMTSEV, M.; OBOLENSKIY, K.; POKATAYEV,
Yu.; TOLKACHEV, A.; KATS, V., red.; KRYLOV, P., red.; KANEVSKAYA,
T.M., red.; GERASIMOVA, Ye.S., tekhn.red.

[Economic competition between the U.S.S.R. and the U.S.A.; a criticism
of the views of American bourgeois economists] Ekonomicheskoe sorevno-
vanie mezhdn SSSR i SShA; kritika vzgliadov amerikanskikh burzhuaznykh
ekonomistov. Moskva, Gosplanizdat, 1959. 240 p. (MIRA 12:3)

1. Moscow. Nauchno-issledovatel'skiy ekonomicheskii institut. 2. Sotrud-
niki Nauchno-issledovatel'skogo ekonomicheskogo instituta Gosplana SSSR
(for all except Kats, Krylov, Kanevskaya, Gerasimova)
(United States--Economic conditions) (Russia--Economic conditions)

AKIMOV, V.I.; ALEKSEYENKO, I.P.; ALENT'YEVA, K.A.; AMOSOV, N.M.; ARUTYUNOV, A.I.;
BRATUS', V.D.; VASHCHENKO, I.D.; GELLERMAN, D.S.; GRISHIN, M.A.;
DANKHEYVA, T.N.; DENISOVA, A.G.; DOLOGOVA, M.P.; IVANOV, N.A.; ISHCHENKO,
I.N.; KATS, V.A.; KOLOMIYCHENKO, M.I.; LAVRIK, S.S.; LIMAREV, A.A.;
NAZAROVA, H.G.; NOVACHENKO, N.P.; PETRUNYA, S.P.; PKHAKADZE, A.L.;
RUDENKO, F.A.; SERGIYEVSKIY, V.F.; TAYTSLIN, I.S.; TARTAKOVSKIY, B.S.;
CHIZHONOK, P.I.; SHALABALA, M.P.; SHUMADA, I.V.; SHUPIK, P.L.

Konstantin Konstantinovich Skvortsov; obituary. Nov.khir.arkh.
no.3:142-143 My-Je '59. (MIRA 12:10)
(SKVORTSOV, KONSTANTIN KONSTANTINOVICH, 1871-1959)

KATS, V.I., doktor ekon. nauk; KIRICHENKO, V.N., kand. ekon. nauk;
IVANOV, Ye.A.; SAID-GALIYEV, K.G.; LUK'YANOV, E.B.; MUSATOVA,
V.A.; PLYSHEVSKIY, B.P., kand. ekon. nauk; STOMAKHIN, V.I.;
KARPUKHIN, D.N., kand. ekon. nauk; KIRICHENKO, N.Ya.;
ZHIDKOVA, M.V., kand. ekon. nauk; ANCHISHKIN, A.I.; KLINSKIY,
A.I., kand. ekon. nauk; SOLOV'YEV, N.S.; KLOTSVOG, F.N.;
VSYAKIKH, E.P.; LAGUTIN, N.S., kand.ekon. nauk; LEMESHEV, M.Ya.,
kand. sel'khoz.nauk; KORMNOV, Yu.F., kand. ekon. nauk; SAVIN,
V.A.; TEREKHOV, V.F.; KUDROV, V.M., kand. ekon. nauk; AL'TER,
L.B., doktor ekon. nauk, red.; KRYLOV, P.N., kand. ekon. nauk;
LEPINKOVA, Ye., red.; KOKOSHKINA, I., mladshiy red.; ULANOVA, L.,
tekhn. red.

[Growth of the social product and the proportions of the
national economy of the U.S.S.R.] Rost obshchestvennogo pro-
izvodstva i proporsii narodnogo khoziaistva SSSR. Moskva,
1962. 453 p. (MIRA 16:2)

(Russia--Economic policy)

FLYSHEVSKIY, Boris Pavlovich, st. nauchn. sotr., kand. ekon. nauk;
YAREMENKO, Yuriy Vasil'yevich, mlad. nauchn. sotr.; ~~KATS~~
~~V.I.~~ doktor ekon.nauk, red.; TRIFSIK, G.B., red.; RYABOVA,
Ye.A., red.; PONOMAREVA, A.A., tekhn. red.

[Regularities of the development of the national product and
national income] Zakonomernosti dvizhenia obshchestvennogo
produkta i natsional'nogo dokhoda. Moskva, Ekonomizdat,
1963. 187 p. (MIRA 16:8)
(Gross national product) (Income)

1ST AND 2ND CROSSL										3RD AND 4TH CROSSL									
PROCESS AND PROPERTIES INDEX																			
<p>KATS, V. C.A.</p> <p style="text-align: right;">16</p> <p>A modification of the Efront method for determination of the saccharifying power of sweet mash. V. Kats. <i>Spirin-Vodochayeva Prom.</i> 15, No. 3, 34(1938). <i>Chem. Zentr.</i> 1938, II, 3022. — Ten cc. of a 0.5% starch soln. and the same amt. of saccharified mash are introduced into each test tube as in the method of Efront (C. A. 30, 4012). The saccharification is continued for 0 min. at 60°. The tubes are then cooled to 20° and 0.3 cc. of 0.5% aq. I soln. is added. W. A. Moore</p>																			
<p>ASM-36A METALLURGICAL LITERATURE CLASSIFICATION</p>																			
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CA

Reducing the lime consumption in sugar refining. V.
M. Kats. *Sukharaya Prom.* 22, No. 12, 14-16 (1948);
Chem. Zentr. (Russian Zone Ed.) 1949, 1, 1181.—A pre-
liminary purification is recommended in order to reduce the
amt. of lime required for the purification of the diffusion
juices. In this way the alk. is gradually increased from 40
0.05 to 0.20% CaO and the temp. is gradually raised from 40
to 70°. During each gradual change optimum conditions
are provided for the coagulation of all the various colloids
present in the diffusion juice, so that the amt. of lime re-
quired as an absorbent during airt. is sharply reduced.
M. G. Moore

1

CA

Determination of color. V. M. Kats. *Sobremennye*
Prilozh. 23, No. 4, 25-7(1949).—K. proposes a modified
 type of the Stamer colorimeter. A sketch and descrip-
 tion are given. V. E. Baikov

ASB-612 METALLURGICAL LITERATURE CLASSIFICATION

GROUPS

RELATIONS

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54

Affination of low-grade raw sugar. V. M. Kats. *Nab-
rarnaya Prom.* 26, No. 3, 18-20(1954).—K. discusses the
advantages of affination of low-grade sugar in 2 and 3
strike systems before remelting. V. E. Baikov

CA

28

Operation with a decreased amount of lime. V. M. Kats.
Sakharnaya Prom. 25, No. 2, 21-3 (1951).—The prefec-
tion of diffusion juice in specially designed equipment, where
unsaturated juice from the first carbonation enters by over-
flow is described. The scheme of the prefecation and the
first carbonation used in the Zarozhanskii Beet Sugar Fac-
tory is shown. V. E. Naikov

KATS, V. N.

Chemical Abst.
Vol. 48 No. 3
Feb. 10, 1954
Sugar, Starch, and Gums

①
Determination of moisture in wet refined sugar. V. M. Kats (Sugar Beet Trust, Lvov). *Sakharnaya Prom.* 27, No. 8, 17-18(1953).—Since dry refined sugar polarizes approx. 99.9 it is reasonable to assume that the difference in polarization is moisture. Therefore, 100 minus pol. is water. This rapid method of detn. is accurate within $\pm 0.2\%$ on the wt. of wet refined sugar.
V. E. Baikov

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Journal of Justice during Civilisation V A. Katsi...

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SHAPIRO, A.I., inzhener; KATS, V.M., inzhener

[Nomographic computations of the capacity of apparatus in beet
sugar factories] Nomograficheskii raschet moshchnosti oborudovaniia
sveklosakharnykh zavodov. Moskva, Pishchepromizdat, 1955. 110 p.
(Sugar machinery) (MLRA 9:8)

KATS, V. M.

BAL'TSER, I. B.; KATS, V. M.

Continuous stone catcher designed by E. F. Vladychenko. Sakh. prom. 29
no. 5:27-31 '55. (MLRA 8:11)

1. L'vovskiy sakhsveklotrest
(Sugar industry--Equipment and supplies)

KATS, V.M.; SHOIKHET, M.I.

Good handbook ("Pressed sugar manufacture." I.F.Zelikman,
F.A.Demchinskii. Reviewed by V.M.Kats, M.I.Shoikhet.)
Sakh.prom. 30 no.1:77 Ja '56. (MLRA 9:6)
(Sugar industry) (Zelikman, I.F.) (Demchinskii, F.A.)

KATS, V.M.

Filter-press with hydraulic removal of sediment ("Gazeta cukrownica"
no.2, 1956) Abstracted by U.N.Kats. Sakh.prom. 30 no.5:66-67 .My '56.
(MLRA 9:9)

(Filter presses)

KATS, V.M.

First installation of filters of the Shareiko system (from "Gazeta
Cukrownicza," no.8, 1956). Sakh.prom.30 no.11:72-73 N '56.
(Filters and filtration) (MLBA 10:2)

KATS, V.M.

Hydraulic removal of dirt from filter presses (from "Gazeta cukrow-
nicza," no.11:70-71 1956). Sakh. prom. 31 no.6:70-71 Je '57.
(Filters and filtration) (MIRA 10:6)

KATS, V.M.

KATS, V.M.

Standard method for determining the moisture content of refined sugar must be made more accurate. Sakh. prom. 31 no.11:79 N '57.

(MIRA 11:1)

1. Vinnitskiy sovnarkhoz.

(Sugar--Analysis and testing)

KATS, V.M.; ROMANOV, P.N.

Bershad Sugar Factory is 130 years old. Sakh. prom. 31 no.12:23-25
D '57. (MIRA 11:1)

1. Vinnitskiy sovnarkhoz.
(Bershad--Sugar industry)

~~SECRET~~
KATS, V.M.

Calculating the effective capacity of a defecator for progressive
predefecation. Sakh. prom. 32 no.1:31-33 Ja '58. (MIRA 11:2)

1. L'vovskiy sakhsveklotrest.
(Sugar manufacture)

KATS, V.M.

Determining traces of salts in purified feed water (from "Chemische Technik, No.4, 1958). Sakh. prem. 32 no.11:71-72 N '58.

(Water--Analysis) (Spectrophotometry) (Salts) (MIRA 11:12)

KATS, V.M.; SHOYKHET, M.I.

Improved method for the determination of reducing substances.
Sakh. prom. 33 no.2:35 F '59. (MIRA 12:3)

1.Vinnitskiy sovnarkhoz (for Kats). 2.L'vovskiy tekhnikum pishchevoy
promyshlennosti (for Shoikhet).
(Sugars--Analysis)
(Reducing agents)

KATS, V.M.

Equipment for sugar factories (from "Gazeta cukrownicza," No.7,
1958). Sakh.prom. 33 no.3:68-69 Mr '59. (MIRA 12:4)
(Poland--Sugar industry--Equipment and supplies)

KATS, V.M.

Utilization of molasses. Sakh. prom. 33 no.5:71 My '59.
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Expansion of Polish sugar industry in the period 1959 - 1965
(from "Gazeta cukrownicza," no.4 1959). Sakh, prom. 33
no,10:72-74 0 '59. (MIRA 13:3)
(Poland--Sugar industry)

KATS, V.M., KHVALKOVSKIY, T.P.

Determination of the total amount of fermented substances and
evaluation of and payment for the molasses. Sakh.prom. 34 no.7:31-
34 J1 '60. (MIRA 13:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharney pro-
myshlennosti.

(Molasses)

KATS, V.M.; KHVALKOVSKIY, T.P.

Reconsidering the instructions on the chemical and technological control and stock taking in beet sugar and raffinade production. Sakh.prom. 34 no.8:10-12
Ag '60. (MIRA 13:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut
sakharnoy promyshlennosti.
(Sugar manufacture)

KATS, V.M.

Device for introducing disinfectants into diffusers. Sakh.
prom. 34 no.9:75-76 S '60. (MIRA 13:9)
(Diffusers--Disinfection)

KATS, V.M.; IVANOVA, L.K.

Analysis of feed molasses for glutamic acid. Sakh.prom. 74 no.11:
18-23 N '60. (MIRA 13:11)

1. Laboratoriya khimicheskogo i mikrobiologicheskogo kontrolya
TSentral'nogo nauchno-issledovatel'skogo instituta sakharney
promyshlennosti.
(Molasses) (Glutamic acid)

KATS, V.M.; KHVALKOVSKIY, T.P.; ARTEMOVA, N.Ya.

Evaluation of the production of individual separation shops.
Sakh.prom. 35 no.7:34-37 JI '61. (MIRA 14:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy
promyshlennosti.
(Ukraine—Sugar manufacture)

KATS, V.M.; KHVALKOVSKIY, T.P.; IVANOVA, L.K.

Investigating raw materials and molasses in the processing of unrefined
cane sugar. Sakh.prom. 36 no.11:45-49 N '62. (MIRA 17:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy promysh-
lennosti.

KATS, V.M.; BENINA, S.S.

Determining the reducing substances content of molasses. Sakh.
prom. 38 no.2:37-41 F '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sveklovichnogo
polevodstva.

KATS, V.M.; NAKHODAINA, V.Z.; KOLASHENIKOVA, L.A. (Moscow, U.S.S.R.)

Genetical and microevolutionary importance of erga. Izv. p. 1.
no. 1:21-25 Ja-Mar '65. MIRA 13-1)

CHUGUNOV, S.Ya.; KATS, V.Ya.; LEMLENKI, Ya.M.

New patenting furnaces. Gaz. prom. 9 no.10:29-38 '61.
(MIRA 17:12)

KATS, Ya.

Indices of physical labor productivity in ferrous metallurgy.
Sots. trud 7 no.10:41-43 0 '62. (MIRA 15:10)

(Steel industry--Labor productivity)

KATS, Ya. D.

5

Some Problems in the Methodology of Calculating Labour Productivity (Sov. 1950, (1), 1932-1034). (In Russian). Points raised in a recent article by Ya. D. Kats on labour productivity calculation are critically considered by G. P. Zhuravlev (1932), I. P. Kharin (1932-1033) and K. A. Pirov (1933-1034). The main objection is to Kats' view on

KATS, Ya.D.

Some problems of methodology of keeping labor productivity records.
Stal' 16 no.6:554-558 Je '56. (MLRA 9:8)

1. Ministerstvo chernoy metallurgii SSSR.
(Metallurgical plants--Accounting) (Labor productivity)

PHASE I BOOK EXPLOITATION

416

Kats, Yakov Davidovich

Promyshlennaya statistika na predpriyatiyakh chernoy metallurgii (Industrial Statistics in Plants of the Iron and Steel Industry) Moscow, Metallurgizdat, 1957. 323 p. 5,700 copies printed.

Ed.: Gorelik, I. G.; Ed. of Publishing House: Khutorskaya, Ye. S.; Tech. Ed.: Korasev, A. I.

PURPOSE: This book is approved as a textbook for the economics departments of metallurgical tekhnikums by the upravleniye srednikh spetsial'nykh uchebnykh zavedeniy Ministerstva vysshego obrazovaniya SSSR (Administration of Secondary Schools of the Ministry of Higher Education, USSR). It may also be useful to economists, statisticians and planners working in plants of the iron and steel industry and in Sovmarkhozy (councils of national economy) who wish to raise their professional qualifications.

COVERAGE: The book covers methods of statistical calculation applied in the iron and steel industry. The presentation of methods is illustrated with examples and calculations taken from the practices of plants in the iron and steel industry. There are 7 references, all Soviet.

Card 1/15

AUTHOR: Kats, Ya. D.

130-5-2/22

TITLE: Production reserves must be used by every means.
(Vsemerno ispol'zovat' rezervy proizvodstva).

PERIODICAL: "Metallurg" (Metallurgist) 1957, No.5, pp.3-4 (USSR).

ABSTRACT: The author surveys plant idle time in the Soviet iron and steel industry. Although on the average idle time has fallen in recent years for blast furnaces, open-hearth furnaces and rolling mills, it has increased for blast furnaces at the Kuznetsk metallurgical combine (from 0.8 in 1950 to 1.2% nominal time in 1955), the Novo-Tagil'skiy works (from 0.7 to 0.9%), the "Svobodnyy Sokol" works (from 0.6 to 0.7%) and at the Chelyabinsk metallurgical works (from 0.8 to 1.3%); and for O.H. furnaces at the "Amurstal" (from 13.6 in 1950 to 14.5% in 1955), the Gur'evskiy (10.7 to 11.1), "Elektrostal'" (19.1 to 19.5), Nizhni-Serginskiy (12 to 12.6%), "Azovstal'" (16.6 to 16.8%). In 1956 average blast-furnace idle time increased from 0.9% to 1.0% from 1955, equivalent to a production loss of 376,000 tons. Slack blast operation gave a further loss of about 169,000 tons. The average O.H. idle time in 1956 was 11.4% of calendar time compared with 12.4%

Card 1/2

Production reserves must be used by every means (Cont.)
130-5-2/22
in 1955. This is still equivalent to a production loss of 4 314 000 tons. At the following works the idle-time figures were about 1.5 times the average: Novo-Tul'skiy, "Serp i Molot", "Elektrostal'", Ashinskiy and Verkhne-Saldinskiy. Discrepancies between identical furnaces at different works and even at the same works are cited. Over 75% of total hot idle-time is attributed to repairs of various parts of the furnace and the use of more heat resisting materials is recommended. For rolling mills idle-time figures are 10-12% of nominal time, but at a Chelyabinsk mill the 1956 figure was 30.7%, and other works (Zakavkazskiy, Makeevskiy, Chusovskiy and Ashinskiy) having values 29.4 - 21.8%. Discrepancies prevail in idle-time figures for identical mills greater than justified by differences in the section being rolled. 60% of the total idle time is attributed to roll-, grade- and shift-changes and to mill setting. There is 1 table.

ASSOCIATION: Planning Board of the Ministry of Ferrous Metallurgy of the U.S.S.R. (Planovoye upravleniye MChM SSSR).

Card 2/2

KATS, Yakov Davidovich; KHEYMAN, S.A., red.; KHUTORSKAYA, Ye.S.,
red.izd-va; DOBUZHINSKAYA, L.V., tekhn.red.

[Collection of problems on industrial statistics] Sbornik
zadach po promyshlennoi statistike. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 139 p.
(MIRA 13:6)

(Industrial statistics)

XATS, Yakov Davidovich; SHENTSIK, Ye.M., red.; KAPRALOVA, A.A., tekhn.red.

[Studies on labor statistics] Ocherki statistiki truda. Moskva,
Gosstatizdat TsSU SSSR, 1960. 207 p. (MIRA 13:10)
(Labor and laboring classes--Statistics)

KATS, Ya.

"Statistical study of labor productivity in industry" by I.A.M.
Erlikh, V.S. Kozlov, A.M. Gol'dberg. Reviewed by I.A. Kats. Sots.
trud 6 no. 2: 151-155 F '61. (MIRA 14:2)
(Odessa—Labor productivity)
(Erlikh, I.A.M.) (Kozlov, V.S.) (Gol'dberg, A.M.)

GOL'DE, P., inzh.; KATS, Ya., inzh.

DKV-3 apparatus for remote moisture control in a stream of grain.
Muk.-elev. prom. 27 no.1:11-14 Ja '61. (MIRA 14:1)
(Grain—Analysis)

KATS, Ya. E., Docent

Candidate of Technical Sciences

"A New Method of Computing Three-Dimensional Cam Mechanisms Used on Automatic Lathes,"
Stanki i Instrument, 17, No. 4-5, 1946

BR-52059019

KATS, Ya.E., kand.tekhn.nauk .

Semiautomatic line for assembling and machining doors and
windows. Der.prom. 8 no.4:3-5 Ap '59. (MIRA 12:6)
(Windows) (Doors) (Woodworking machinery)

KATS, Ya. F.

KATS, Ya. F., ZHURAVEL', M. C., NEGRUL', A. M.

25751 KATS, Ya. F. Sorta Vinograda Sredneyeziatskoy Stantsii Vir.
Vinodeliye i Vinogradadarstvo SSSR, 1948, No. 6. s. 24-28.

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948.

YUSUPOV, Kh.S.; KATS, Ya.P.; PREOBRAZHENSKIY, A.A.; ZHURAVEL', M.S.;
HEGRUL', A.M., prof., doktor sel'skokhoz.nauk, red.

[Industrial varieties of grapes in Uzbekistan] Promyshlennyye
sorta vinograda Uzbekistana. Tashkent, Gos.izd-vo Uzbekskoi
SSR, 1959. 198 p. (MIRA 14:3)
(Uzbekistan--Grapes)

KATS, Ya.G.

How the party organization of Oktyabr'skiy District tried to protect
the lives and health of the people during the siege of Leningrad,
September 1941-March 1942. Trudy LEIS no.4:93-104 '59.

(MIRA 13:10)

(Leningrad--Siege, 1941-1944)

KATS, Ya.G.; KRASIL'NIKOV, B.N.; MOSSAKOVSKIY, A.A.; SULIDI-KONDRAT'YEV,
Ya.D.; KHERASKOV, N.N.

Paleozoic stratigraphy of the Minusinsk Lowland and its marginal
mountains. Trudy VAGT no.4:99-148 '58. (MIRA 12:6)
(Minusinsk Lowland--Geology, Stratigraphic)

KATS, Ya.G.

Principal tectonic characteristics of the Nazarovo intermountainous depression. Izv. vys. ucheb. zav.; geol. i razv. 2 no.2:3-14 F '59.
(MIRA 12:10)

1. Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze.
Kafedra obshchey geologii.
(Nazarovo Ridge--Geology, Structural)